

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) An engine having a fixed portion and at least one separate cylinder block that defines and in cooperation with a piston fully encloses at least one chamber in which the piston can reciprocate, wherein the cylinder block rotates relative to the fixed portion to provide a work output.

2. (Currently Amended) The engine ~~in the immediately preceding claim of claim 1~~ further ~~characterised~~characterized in that the fixed portion is a casing.

3. (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further ~~characterised~~characterized in that the cylinder block is a rotor with an output shaft attached to it.

4. (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further ~~characterised~~characterized in that the fixed portion retains that rotor such that the rotor is free to rotate about an axis of rotation passing through its centre.

5. (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further characterized in that the centre of the output shaft is collinear with the axis of rotation of the cylinder block.

6. (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further ~~characterised~~characterized in that the engine is a combustion engine, the chamber a combustion chamber, and wherein the piston is oriented within the cylinder block so as to be tangentially oriented around the axis of rotation, with the head of the piston pointed in the direction of rotation.

7. (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further characterized in that inlet charges and exhaust products are supplied and removed respectively from the combustion chamber via the output shaft.

8. (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further ~~characterised~~characterized in that the piston has attached to it driving means that convert its reciprocating motion to a circular motion that assists in rotating the cylinder block relative to the fixed portion.

9. (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further ~~characterised~~characterized in that the driving means for each piston include a connecting rod, a crankshaft, and a pinion gear connected to the crankshaft which engages a ring type gear fixed to the fixed portion.

10. (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further ~~characterised~~characterized in that the piston is oriented in a plane normal to the centre of rotation of the block.

11 (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further ~~characterised~~characterized in that the piston is oriented with its head pointed In the direction that the cylinder block will rotate.

12. (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further characterized in that with respect to the direction of rotation of the block, the combustion chamber is substantially positioned on a trailing side of the centre of rotation of the block.

13. (Currently Amended) The engine ~~as in any one of the preceding claims of claim 1~~ further ~~characterised~~characterized in that the piston is offset from the centre of rotation of the block.

14. (Original) A method of effecting a cycle of an engine including a fixed portion and at least one separate cylinder block that defines at least one chamber fully enclosed by the cylinder block, in which a piston can reciprocate, wherein the cylinder block rotates relative to the fixed portion to provide a work output, wherein as a working fluid in the chamber expands and drives the cylinder and the block in opposing directions, this in turn rotates a pinion gear that is connected to a crankshaft, the pinion gear engages a ring type gear fixed to a fixed portion, such that the rotation of the pinion gear on the ring type gear rotates the cylinder block relative to the fixed portion thereby providing a work output, whilst simultaneously driving the piston back into a position where it can accept a fresh charge.

15. (Currently Amended) The method ~~as in the immediately preceding claim of claim 14~~ further ~~characterised~~characterized in that the fresh charge comprises fresh working fluid.

16. (Currently Amended) The method ~~as in any one of the preceding method claims of claim 14~~ further ~~characterised~~characterized in that the fresh charge comprises working fluid and fuel.

17. (Currently Amended) The method ~~as in any one of the preceding claims~~the method of claim 14 further characterised characterized in that the working fluid is air.
18. (Currently Amended) The method ~~as in any one of the preceding claims~~of claim 14 further ~~characterised~~characterized in that the working fluid is steam.
19. (Currently Amended) The engine ~~as in any one of the preceding claims~~of claim 1 further ~~characterised~~characterized in that the engine is an internal combustion engine.
20. (Canceled).
- 21 (Canceled).